Gordon Wyeth

List of Publications by Year
in descending order

56	1,424	566801	476904
papers	citations	15	29
		h-index	g-index
57	57	57	1244
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Persistent Navigation and Mapping using a Biologically Inspired SLAM System. International Journal of Robotics Research, 2010, 29, 1131-1153.	5.8	221
2	OpenFABMAP: An open source toolbox for appearance-based loop closure detection. , 2012, , .		114
3	OpenRatSLAM: an open source brain-based SLAM system. Autonomous Robots, 2013, 34, 149-176.	3.2	103
4	Vision‐based Obstacle Detection and Navigation for an Agricultural Robot. Journal of Field Robotics, 2016, 33, 1107-1130.	3.2	98
5	Place categorization and semantic mapping on a mobile robot. , 2016, , .		87
6	CAT-SLAM: probabilistic localisation and mapping using a continuous appearance-based trajectory. International Journal of Robotics Research, 2012, 31, 429-451.	5.8	86
7	Demonstrating the safety and performance of a velocity sourced series elastic actuator. , 2008, , .		64
8	Spatial cognition for robots. IEEE Robotics and Automation Magazine, 2009, 16, 24-32.	2.2	63
9	Maintaining a Cognitive Map in Darkness: The Need to Fuse Boundary Knowledge with Path Integration. PLoS Computational Biology, 2012, 8, e1002651.	1.5	46
10	Geometrically consistent plane extraction for dense indoor 3D maps segmentation. , 2016, , .		39
11	Robotics for Sustainable Broad-Acre Agriculture. Springer Tracts in Advanced Robotics, 2015, , 439-453.	0.3	32
12	Aerial SLAM with a single camera using visual expectation. , 2011, , .		29
13	Farm Workers of the Future: Vision-Based Robotics for Broad-Acre Agriculture. IEEE Robotics and Automation Magazine, 2017, 24, 97-107.	2.2	27
14	Hybrid robot control and SLAM for persistent navigation and mapping. Robotics and Autonomous Systems, 2010, 58, 1096-1104.	3.0	26
15	Learning spatial concepts from RatSLAM representations. Robotics and Autonomous Systems, 2007, 55, 403-410.	3.0	25
16	RatSLAM: Using Models of Rodent Hippocampus for Robot Navigation and Beyond. Springer Tracts in Advanced Robotics, 2016, , 467-485.	0.3	24
17	Robust outdoor visual localization using a three‐dimensional‐edge map. Journal of Field Robotics, 2009, 26, 728-756.	3.2	22
18	RatSLAM on the Edge: Revealing a Coherent Representation from an Overloaded Rat Brain. , 2006, , .		21

#	ARTICLE	IF	CITATIONS
19	Continuous appearance-based trajectory SLAM. , 2011, , .		21
20	Calibration of the head direction network: a role for symmetric angular head velocity cells. Journal of Computational Neuroscience, 2010, 28, 527-538.	0.6	18
21	The race to learn: Spike timing and STDP can coordinate learning and recall in CA3. Hippocampus, 2011, 21, 647-660.	0.9	18
22	Robot navigation using human cues: A robot navigation system for symbolic goal-directed exploration. , 2015, , .		18
23	MAPS: a system for multi-agent coordination. Advanced Robotics, 2000, 14, 37-50.	1.1	17
24	Lingodroids: socially grounding place names in privately grounded cognitive maps. Adaptive Behavior, 2011, 19, 409-424.	1.1	17
25	Towards persistent indoor appearance-based localization, mapping and navigation using CAT-Graph. , 2012, , .		16
26	Novelty-based visual obstacle detection in agriculture. , 2014, , .		14
27	Find my office: Navigating real space from semantic descriptions. , 2016, , .		14
28	Using Strategic Movement to Calibrate a Neural Compass: A Spiking Network for Tracking Head Direction in Rats and Robots. PLoS ONE, 2011, 6, e25687.	1.1	12
29	Visual localisation in outdoor industrial building environments. , 2008, , .		11
30	Lingodroids: Studies in spatial cognition and language. , 2011, , .		11
31	Are We There Yet? Grounding Temporal Concepts in Shared Journeys. IEEE Transactions on Autonomous Mental Development, 2011, 3, 163-175.	2.3	11
32	Capping computation time and storage requirements for appearance-based localization with CAT-SLAM. , 2012, , .		11
33	Multiple map hypotheses for planning and navigating in non-stationary environments. , 2014, , .		11
34	Outdoor Simultaneous Localisation and Mapping Using RatSLAM. , 2006, , 143-154.		10
35	Spatial Mapping and Map Exploitation: A Bio-inspired Engineering Perspective. , 2007, , 203-221.		10
36	Robot Navigation in Unseen Spaces Using an Abstract Map. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 791-805.	2.6	10

#	Article	IF	Citations
37	Locally Weighted Learning Model Predictive Control for nonlinear and time varying dynamics. , 2013, , .		7
38	Active audition using the parameter-less self-organising map. Autonomous Robots, 2008, 24, 401-417.	3.2	6
39	UQ RoboRoos: Achieving Power and Agility in a Small Size Robot. Lecture Notes in Computer Science, 2002, , 603-606.	1.0	5
40	Beyond here-and-now: extending shared physical experiences to shared conceptual experiences. Adaptive Behavior, 2012, 20, 360-387.	1.1	4
41	UQ RoboRoos: Kicking on to 2000. Lecture Notes in Computer Science, 2001, , 555-558.	1.0	4
42	THE FORMATION, GENERATIVE POWER, AND EVOLUTION OF TOPONYMS: GROUNDING A SPATIAL VOCABULARY IN A COGNITIVE MAP. , 2008, , .		4
43	Cognitive Models of Spatial Navigation from a Robot Builder's Perspective. Adaptive Behavior, 1998, 6, 509-534.	1.1	3
44	Robot Building for Preschoolers. Lecture Notes in Computer Science, 2008, , 124-135.	1.0	3
45	Training a Vision Guided Mobile Robot. Autonomous Robots, 1998, 5, 381-394.	3.2	2
46	The implementation of a novel, bio-inspired, robotic security system. , 2009, , .		2
47	The RatSLAM project: robot spatial navigation. , 0, , 87-108.		1
48	Adding a receding horizon to Locally Weighted Regression for learning robot control. , 2011, , .		1
49	Robots move: Bootstrapping the development of object representations using sensorimotor coordination. , 2012, , .		1
50	Outdoor Simultaneous Localisation and Mapping Using RatSLAM. , 2006, , 143-154.		1
51	UQ CrocaRoos: An Initial Entry to the Simulation League. Lecture Notes in Computer Science, 2002, , 547-550.	1.0	1
52	Finding Within-Organisation Spatial Information on the Web. Lecture Notes in Computer Science, 2015, , 242-248.	1.0	1
53	Odometry-driven inference to link multiple exemplars of a location. , 2013, , .		0
54	Spatial Information Recognition in Web Documents Using a Semi-supervised Machine Learning Method. Lecture Notes in Computer Science, 2017, , 150-164.	1.0	0

#	ARTICLE	IF	CITATIONS
55	Adding a Receding Horizon to Locally Weighted Regression for learning robot control. , 2011, , .		0
56	Experiments in Learning Helicopter Control from a Pilot. , 0, , 267-276.		0